

Appendix D.
Utilities Table

HNTB

SAN FRANCISCO TO SAN JOSE HIGH-SPEED TRAIN PROJECT

IN-PROGRESS DRAFT

IMMOVABLE / RELOCATION AVOIDANCE UTILITIES

EXISTING UTILITY MATRIX

Prepared by: J. Lau

| City | Sub-Section # | Utility | Size and Type | Owner | Caltrain Milepost | Longitudinal / Transverse | Location | Exist Street Profile | Proposed Vertical Option | In Conflict (Yes / No) | In Conflict w/ Aerial | In Conflict w/ Transitional Structure | In Conflict w/ At Grade | In Conflict w/ Trench | In Conflict w/ Tunnel | In Conflict w/ Proposed Station | In Conflict w/ Proposed Grade Separation | High Risk | Source | Comments | Status |
|--|---------------|----------------|--|-----------------------------|-------------------|---------------------------|-----------------------------|----------------------|----------------------------|------------------------|-----------------------|---------------------------------------|-------------------------|-----------------------|-----------------------|---------------------------------|--|-----------|--|---|--------|
| San Francisco | 0 | Water | 5' dia water intake tunnel | SFPUC | -1 | Longitudinal | Townsend Street | | Trench / Tunnel | | | | | | | | | | SFPUC / SFFD | Intakes water from SF Bay and ties into a pump station. Intended for major disaster fire distinguish relief. SFFD would probably not allow modification. Immovable utility. | |
| All | 0 | Telecomm | Multi-carrier fiber optic joint trench | Various | 0 to 47.207 | Longitudinal | Caltrain Corridor | | | | | | | | | | | | PCJPB | Major utility. | |
| San Francisco | 0 | Sanitary Sewer | 4 sets of 8'-3" x 9'6" on piles | City of San Francisco | 0.73 | Transverse | Berry Street | Non-Crossing | At Grade / Trench / Tunnel | | | | | | | | | | Channel Outfalls Consolidation Contract-Division Street Sewer Connection | Immovable utility. 2 ft ground cover. Structural piles starting at 13 ft below existing surface. Pile tip elevation is unknown. | |
| San Francisco | 1 | Electrical | 115 kV | PG&E | 2.84 | Transverse | Jerrold Ave | Underpass | At Grade / Trench / Tunnel | | | | | | | | | Yes | Jerrold Ave and Quint Street Bridges Replacement (65% Submittal) | Immovable utility. Potholed 2 ft cover | |
| San Francisco | 1 | Electrical | 115 kV, 3 ft wide slurry encased | PG&E | 3.02 | Transverse | Quint Street | Underpass | At Grade / Trench / Tunnel | | | | | | | | | Yes | Jerrold Ave and Quint Street Bridges Replacement (35% Submittal) | Immovable utility. Potholed 20" cover. | |
| San Francisco | 1 | Storm Drain | 7.75 ft RCB | | 3.78 | Transverse | Kalmanovitz Street | Non-Crossing | At Grade / Trench / Tunnel | | | | | | | | | | PCJPB | Avoid relocation. | |
| San Francisco | 1 | Storm Drain | 6.65 ft RCB | | 3.91 | Transverse | Egbert Ave | Non-Crossing | At Grade / Trench / Tunnel | | | | | | | | | | PCJPB | Avoid relocation. | |
| San Francisco | 2 | Storm Drain | 6.5 ft wide w/ encasement | | 5.19 | Transverse | Sunset Scavenger Area | | At Grade | | | | | | | | | | PCJPB | Avoid relocation. | |
| Brisbane / South San Francisco / San Bruno | 2 | Fuel | | Kinder Morgan | 6.58 to 10.94 | Longitudinal | Caltrain Corridor | | | | | | | | | | | Yes | PCJPB | Major utility. | |
| South San Francisco | 2 | Electrical | 3 sets of Transmission Overheads | PG&E | 8.96 | Transverse | South San Francisco Station | | At Grade | | | | | | | | | | PCJPB | Avoid relocation. | |
| South San Francisco | 2 | Gas | 30" casing | PG&E | 9.34 | Transverse | Grand Ave | Non-Crossing | At Grade | | | | | | | | | Yes | PCJPB | Avoid relocation. | |
| South San Francisco | 2 | Gas | 24" pipe in 30" casing | PG&E | 9.59 | Transverse | Airport Blvd | Underpass | At Grade | | | | | | | | | Yes | PCJPB | Avoid relocation. | |
| South San Francisco | 2 | Water | 44" Hetch Hetchy aqueduct | SFPUC | 9.64 | Transverse | Lowrie Ave | Non-Crossing | Aerial / Berm | | | | | | | | | | SFPUC Water Supply and Treatment Division | Immovable utility. | |
| South San Francisco | 2 | Sanitary Sewer | 27" pipe | City of South San Francisco | 9.705 | Transverse | Off Street | | Aerial / Berm | | | | | | | | | | PCJPB | Avoid relocation. | |
| South San Francisco | 2 | Sanitary Sewer | 33" pipe | City of South San Francisco | 9.71 | Transverse | Off Street | | Aerial / Berm | | | | | | | | | | PCJPB | Avoid relocation. | |
| San Bruno | 2 | Storm Drain | 10-4'x4' box culvert | City of San Bruno | 11.21 | Transverse | Off Street | | Aerial / Berm | | | | | | | | | | San Bruno Grade Separation Project (95% Submittal) | Avoid relocation. | |
| San Bruno | 2 | Storm Drain | 2 sets of 7'x4' box culverts | City of San Bruno | 11.29 | Transverse | Off Street | | Aerial / Berm | | | | | | | | | | San Bruno Grade Separation Project (95% Submittal) | Avoid relocation. | |
| San Bruno | 2 | Sanitary Sewer | 2-24" RCP each in 42" steel casing | City of San Bruno | 11.66 | Transverse | Off Street | | Aerial / Berm | | | | | | | | | | PCJPB | Avoid relocation. | |
| San Bruno | 2 | Storm Drain | Triple 11'x4' box culverts | City of San Bruno | 11.69 | Transverse | Off Street | | Aerial / Berm | | | | | | | | | | PCJPB | Avoid relocation. | |

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|--------------|---------------|----------------|-------------------------------|--------------------|-------------------|---------------------------|-------------------------------------|----------------------|--|------------------------|-----------------------|---------------------------------------|-------------------------|-----------------------|-----------------------|---------------------------------|--|-----------|--|--|--------|
| San Bruno | 2 | Water | 24" Hetch Hetchy steel pipe | SFPUC | 11.92 | Transverse | San Felipe Ave | Non-Crossing | At Grade | | | | | | | | | | SFPUC Water Supply and Treatment Division | Immovable utility. Hetch Hetchy aqueduct distribution to SF Aiprort. | |
| San Bruno | 2 | Water | 24" Hetch Hetchy steel pipe | SFPUC | 11.93 | Transverse | San Felipe Ave | Non-Crossing | At Grade | | | | | | | | | | SFPUC Water Supply and Treatment Division | Immovable utility. Hetch Hetchy aqueduct distribution to SF Aiprort. | |
| San Bruno | 2 | Storm Drain | 6.8 ft wide | City of San Bruno | 11.95 | Transverse | Off Street | | At Grade | | | | | | | | | | PCJPB | Avoid relocation. | |
| Millbrae | 2 | Storm Drain | 49.5 ft wide | | 12.667 | Transverse | Off Street | | At Grade | | | | | | | | | | PCJPB | Avoid relocation. | |
| Millbrae | 2 | Water | Encased 24" Hetch Hetchy main | SFPUC | 13.04 | Transverse | Santa Paula Ave pedestrian crossing | At-Grade | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | Yes | | SFPUC Water Supply and Treatment Division | Immovable utility. Hetch Hetchy aqueduct distribution to SF Aiprort. | |
| Millbrae | 2 | Electrical | Transmission Overhead | PG&E | 13.055 | Transverse | Santa Paula Ave pedestrian crossing | At-Grade | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | Yes | | PCJPB | Avoid relocation. | |
| Millbrae | 2 | Storm Drain | 11 ft wide | | 13.52 | Transverse | Off Street | | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | PCJPB | Avoid relocation. | |
| Millbrae | 2 | Storm Drain | 60 ft wide | | 13.522 | Transverse | Off Street | | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | PCJPB | Avoid relocation. | |
| Burlingame | 3 | Storm Drain | 2-83"x53" Oval CIP | City of Burlingame | 14.57 | Transverse | Off Street | | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | PCJPB and City of Burlingame Sewer System Facilities Map | Avoid relocation. | |
| Burlingame | 3 | Storm Drain | Box Culvert (9' X 25' X 5') | City of Burlingame | 14.83 | Transverse | Easton Creek | | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | City of Burlingame Storm System Facilities Map | Avoid relocation. | |
| Burlingame | 3 | Sanitary Sewer | 36" CCFP | City of Burlingame | 15.23 | Transverse | Cadillac Way | Non-Crossing | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | City of Burlingame Sewer System Facilites Map | AAvoid relocation. | |
| Burlingame | 3 | Storm Drain | 2-90" RCP | City of Burlingame | 15.955 | Transverse | Oak Grove Ave | At-Grade | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | Yes | | SMC Grade Crossing Improvements and City of Burlingame Sewer System Facilities Map | Avoid relocation. | |
| San Mateo | 3 | Electrical | Overhead-60 kV junction line | PG&E | 18.288 | Transverse | 9th Ave | At-Grade | Aerial / Berm / Trench / Tunnel | | | | | | | | | | SMC Grade Crossing Improvements | Avoid relocation. | |
| San Mateo | 3 | Storm Drain | 10 ft wide | | 18.85 | Transverse | Off Street | | Aerial / Berm / Trench / Tunnel | | | | | | | | | | PCJPB | Avoid relocation. | |
| Belmont | 4 | Storm Drain | 21 ft wide concrete channel | | 22.34 | Transverse | Belmont Creek | | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | PCJPB | Avoid relocation. | |
| Redwood City | 4 | Water | 60" Hetch Hetchy aqueduct | SFPUC | 26.77 | Transverse | Off Street | | At Grade / Trench / Tunnel | | | | | | | | | | SFPUC Water Supply and Treatment Division | Immovable utility. | |
| Palo Alto | 6 | Water | 24" RCP | | 30.99 | Transverse | Churchill Avenue | At-Grade | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | Yes | | PCJPB | Avoid relocation. | |
| Palo Alto | 6 | Water | 24" CIP | | 31.02 | Transverse | Churchill Avenue | At-Grade | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | Yes | | SCC Caltrain Safety Improvements | Avoid relocation. | |
| Palo Alto | 6 | Storm Drain | 8.5 ft wide box culvert | | 32.306 | Transverse | Matadero Creek | | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | PCJPB | Avoid relocation. | |

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| Mountain View | 7 | Water | 72" Hetch Hetchy aqueduct | SFPUC | 35.09 | Transverse | Escuela Ave | Non-Crossing | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | SFPUC Water Supply and Treatment Division | Immovable utility. | |
| Mountain View | 7 | Water | 90" Hetch Hetchy aqueduct | SFPUC | 35.095 | Transverse | Escuela Ave | Non-Crossing | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | SFPUC Water Supply and Treatment Division | Immovable utility. | |
| Mountain View | 7 | Electrical | 2 sets of Transmission Overheads | PG&E | 36.45 | Transverse | Stevens Creek | | At Grade / Trench / Tunnel | | | | | | | | Yes | | PCJPB | Avoid relocation. | |
| Sunnyvale | 8 | Water | 36" CCP | City of Sunnyvale | 39.792 | Transverse | Wolfe Road | Overpass | At Grade / Trench / Tunnel | | | | | | | | | | City of Sunnyvale Water System Map | Connects to an industrial water plant on east side of Wolfe Road. Avoid relocation. | |
| Sunnyvale | 8 | Sanitary Sewer | 24" | | 40.79 | Transverse | French Street | Non-Crossing | At Grade | | | | | | | | | | PCJPB | Avoid relocation. | |
| Santa Clara | 9 | Water | 24" | Cal Water | 44.63 | Transverse | Off Street | | Aerial / Berm / At Grade / Trench / Tunnel | | | | | | | | | | PCJPB | East of De La Cruz Blvd. Avoid relocation. | |
| San Jose | 9 | Sanitary Sewer | Industrial waste | | 46.546 | Transverse | CEMOF | | Aerial / Berm / At Grade | | | | | | | | | | PCJPB | Avoid relocation. | |
| San Jose | 9 | Sanitary Sewer | Industrial waste | | 46.547 | Transverse | CEMOF | | Aerial / Berm / At Grade | | | | | | | | | | PCJPB | Avoid relocation. | |